PRINCE PUBLIC SCHOOL HALF YEARLY EXAMINATION (2019-20) SCIENCE SAMPLE PAPER-2

X

TIME ALLOWED: 3 HOURS

MAXIMUM MARKS: 80

General Instructions

- 1. There are 36 questions in total. This question paper comprises of four sections A, B C and D. You have to attempt all the sections.
- 2. Question number 1 to 10 in section A are 1 mark questions.
- 3. Question number 11 to 20 in section B are also 1 mark questions. These are to be answered in one word or in one sentence.
- 4. Question number 21 to 30 in section C are 3 marks questions. These are to be answered in about 50 words each.
- 5. Question number 31 to 36 in section D are 5 marks questions. These are to be answered in about 70 words each.

SECTION-A

Q1.	In a reaction, $2AgI(s) \rightarrow 2Ag + I_2(g)$, the colour of iodine is			
	a) black	b) green	c) purple	d) white
Q2.	is not an acidic salt.			
	a) Copper sulphate	b) Ammonium chloride	c) Ferric chloride	d) Sodium acetate
Q3.	Many salts absorb water from atmosphere. This property is called			
	a) deliquescence	b) efflorescence	c) hydration	d) addition
Q4.	Egg shell is made up of	-		
	a) calcium carbonate	b) calcium hydroxide	c) calcium chloride	d) calcium oxide
Q5.	Cinnabar is an ore of	•		
	a) mercury	b) calcium	c) aluminium	d) copper
Q6.	lonic bondare formed by theof electrons.			
	a) transfer	b) sharing	c) lone pair	d) bond pair
Q7.	The filtration units of kidneys are called			
	a) ureter		c) neurons	d) nephrons
Q8.	is the part of alimentary canal that receives bile from the liver.			
	a) Stomach	b) Small intestine		d) Oesophagus
Q10). Blood pressure is measured by an instrument called			
	a) Barometer	b) Sphygmomanometer	c) Photometer	d) Manometer
Q1:	L. The is wher	e the respiratory and digestive	e passages come toget	her.
Q12	2. Name a device that helps to r	maintain a potential difference	e across a conductor.	
Q13	3. Chemicals which are released	I in the synaptic junction are c	called	
	. Two resistors are in parallel w			
Q15	5. What do you understand by o	direct current?		
Q16	6. Define magnetic field lines.			
	7. Give any one example of olfa			
	3. In a reaction, $H_2 + O_2 \rightarrow H_2O_1$		oxidizing agent.	
	$oldsymbol{9}$. Write the chemical formula $oldsymbol{0}$	f bleaching powder.		
	. What are platelets?			
Q21	. What is meant by ocean therr	nal energy? Explain how ocea	n thermal energy can b	be used to generate
	electricity.	a martal N4 subat would you tal	ko as tha anada tha as	thodo and the
ŲΖΖ	In the electrolytic refining of a electrolyte?	ı illetal ivi, wilat woulu you tal	ne as the another, the Co	and the
	electiolyte:			

Q23. State the relation between work, charge and potential difference for an electrical circuit.

- **Q24.** a) Write name of four nuclear power reactors located in India.
 - b) State any three reasons to justify that LPG is considered an idea fuel.
- **Q25.** State the various advantages and applications of electromagnet.
- **Q26.** Nichrome is used to make the element of electric heater. Why?
- Q27. What are the strategies of plants to get rid of their wastes?
- Q28. a) What is ATP? What is its use?
 - **b)** Describe circulatory system in a fish.
- **Q29**. Give the method of preparation of bleaching powder. Mention its chemical equation also.
- Q30. State the functions of any three of the structural and functional unit of nervous system.
- **Q31**. Describe the extraction of mercury metal from its ore cinnabar.
- Q32. a) What is a neutralization reaction? Explain with examples.
 - b) Give two important used of washing soda and baking soda.
 - c) Plaster of paris should be stored in a moisture proof container. Explain why.
- **Q33**. What are the advantages and disadvantages of using a solar cooker?
- **Q34**. A piece of wire having a resistance R is cut into five equal parts.
 - a) How will the resistance of each part of the wire compare with the original resistance?
 - b) If the five parts of the wire are placed in parallel, how will the resistance of the combination compare with the resistance of the original wire? What will be ratio of resistance in series to that of parallel?
- Q35. a) Give the functions of cerebellum (any two).
 - b) Differentiate between sensory neurons and motor neurons.
- Q36. a) What is the effect of concentration of hydrogen ions (aq) ions on the nature of a solution?
 - b) Why does aqueous solution of sodium chloride can easily conducts electricity whereas solid sodium chloride doesn't?
 - c) Someone put some universal indicator paper into vinegar. The pH is 3. What does this tell you about
 - d) Which chemical is injected into the skin of a person,
 - i) through an ant's sting?
 - ii) through the nettle leaf hair sting?